

Title (en)

Surface acoustic wave resonator, surface acoustic wave filter, duplexer and communication device

Title (de)

Resonator, Filter, Duplexer und Kommunikationsgerät mit Akustischen Oberflächenwellen

Title (fr)

Résonateur, filtre duplexeur et dispositif de communication à ondes acoustiques de surface

Publication

EP 0982856 A3 20000913 (EN)

Application

EP 99402096 A 19990820

Priority

JP 23577298 A 19980821

Abstract (en)

[origin: EP0982856A2] A surface acoustic wave resonator (1) includes a piezoelectric substrate (2) including a langasite single crystal material and at least one interdigital transducer (3) having at least one pair of comb-shaped electrodes arranged so as to be in contact with the piezoelectric substrate. The surface acoustic wave resonator operates using a surface acoustic wave including an SH wave as the main component. <IMAGE>

IPC 1-7

H03H 9/02

IPC 8 full level

H03H 9/25 (2006.01); **H03H 9/02** (2006.01); **H03H 9/64** (2006.01)

CPC (source: EP US)

H03H 9/0259 (2013.01 - EP US)

Citation (search report)

- [A] GB 2287580 A 19950920 - MURATA MANUFACTURING CO [JP]
- [XA] J. KOSKELA ET AL.: "Surface Transverse Waves on Langasite", APPLIED PHYSICS LETTERS., vol. 72, no. 21, 25 May 1998 (1998-05-25), AMERICAN INSTITUTE OF PHYSICS. NEW YORK., US, pages 2665 - 2667, XP002140299, ISSN: 0003-6951
- [X] I B YAKOVKIN ET AL: "Numerical and Experimental Investigation in Langasite", IEEE ULTRASONICS SYMPOSIUM,US,IEEE, NEW YORK, NY, 7 November 1995 (1995-11-07), pages 389 - 392-392, XP002112466
- [A] N. F. NAUMENKO: "SAW and leaky waves in a new piezoelectric crystal of langasite", PAPER 90, SURFACE WAVES IN SOLID AND LAYERED STRUCTURES, 1994, AND NATIONALCONFERENCE ON ACOUSTOELECTRONICS. 1994 INTERNATIONAL SYMPOSIUM ON PROGRAM AND ABSTRACTS, May 1994 (1994-05-01), New York, US, pages 0_111 - 0_111, XP002124723

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